

Attachment
1

ATLANTIC CITY PUBLIC SCHOOLS

1809 Pacific Avenue
Atlantic City, NJ 08401

eRate Bid Information

Internal Connections – Form 470# 526880000481973

CANCELLED
4/6 Cisco eg
on hold

BIDDER REQUIREMENTS

FEDERAL E-RATE FUNDING PROGRAM

1. **USF Knowledge:** BIDDER shall have, at a minimum, a working knowledge of the Universal Service Fund ("USF") program for schools and libraries, commonly referred to as the "E-rate Program."
1. **USF Registration:** BIDDER shall submit with its proposal a Service Provider Identification Number ("SPIN").
2. **USF Participation and Cooperation:** BIDDER shall agree to participate in the E-rate Program and to cooperate fully and in all respects with the District, its representatives, and any agency or organization administering the E-rate Program to ensure that the District receives all of the E-rate funding for which it has applied and to which it is entitled in connection with BIDDER's services and/or products.
3. **USF Information and Documentation:** BIDDER shall provide to District staff and/or the District's E-rate consultant within a commercially reasonable period of time all of the information and documentation that the BIDDER has or that BIDDER reasonably can acquire that the District may need to prepare its E-rate applications and/or to document transactions eligible for E-rate support.
4. **USF Discounted Invoicing and Reimbursement Processes:** BIDDER shall, at the District's request, either (a) invoice the District *only* for the non-discounted amounts due on E-rate-approved transactions and simultaneously invoice the Universal Service Administrative Company ("USAC") for the balance [Discounted Invoice Process] or (b) remit to the District within twenty days of receipt the reimbursement payments it receives from USAC or any other third-party payor for the discounted portions of E-rate approved transactions involving the District. [Reimbursement or "BEAR" Process].
 - a. **Discounted Invoice Process:**
 - i. **Timely Filing:** BIDDER shall be solely responsible for timely filing invoices with USAC and understands and agrees that District will NOT be liable to BIDDER *under any circumstances* for any approved, discounted amount that BIDDER is required to submit to USAC for payment under this paragraph.
 - ii. **District Approval:** BIDDER shall submit to the District for its review and approval *before* submitting it to USAC for payment, a copy of every invoice that BIDDER intends to submit for services that it has provided or, in appropriate circumstances, will be providing to the District. The District shall not unreasonably delay or withhold approval of BIDDER's USAC invoices. As BIDDER is solely responsible for timely filing invoices with USAC, it understands that it must submit invoices to the District sufficiently in advance of any USAC filing deadline to ensure that there will be *adequate time remaining* for it to meet the USAC filing deadline *after* the District has had a reasonable opportunity to review and approve them.
 - b. **Reimbursement Process:**
 - i. **Twenty Days:** BIDDER understands that E-rate Program rules require it to remit a reimbursement payment to the District *within twenty (20) days* of receiving it from USAC.
5. **Non-USF Invoicing:** BIDDER shall list, price, and invoice separately any services that are ineligible for E-rate funding.

PROPOSALS MUST INCLUDE:

1. Quote for services and/or goods requested
 - a. Clearly identifying eRate eligible items from non-eligible items and listing these costs and totals separately
 - b. Identification of the SLD Form 470 number for which you are replying

Attachment
1 page 2

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- c. SPIN (proposals will not be processed absent the SPIN)
2. Five (5) references for similar services performed for a similar client (e.g. schools) including three (3) indicating satisfactory work completed within the past 12 months for different clients
3. Include a signed and dated contract along with the proposal that can be accepted by the school if bidder is the successful vendor. The contract should have a clause: "This contract is based on the District receiving a Funding Commitment Decision Letter (FCDL) from Schools and Libraries Division (SLD) of the Universal Service Administrative Company (USAC) for the requested amount. If funding is reduced, the school has the option of reducing the scope of the contract accordingly. If, for any reason, funding is denied, this agreement would be null and void.
4. Documentation of appropriate industry-recognized certificates required to perform the proposed work. (A+, MCSE, Cisco, Lucent, etc.)

LAN CABLING, WIRELESS AREAS, AND VPBX PROPOSALS REQUIRE A SITE WALK-THROUGH. PLEASE ARRANGE TO ATTEND ONE OF THE TWO SCHEDULED SITE VISITS.

PROPOSAL SUBMISSION:

Bids must be sealed, properly addressed, and delivered by 10:00A, January 12, 2004 to:

ATLANTIC CITY PUBLIC SCHOOLS
c/o ALEMAR Consulting, Inc.
442 Lyndhurst Drive
Broomall, PA 19008-4146

Please note that name of School District **must** be on the outside of the sealed envelope.

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1

ATLANTIC CITY PUBLIC SCHOOLS

1809 Pacific Avenue
Atlantic City, NJ 08401

eRate Bid Information
Internal Connections – Form 470# 526880000481973

GOODS AND SERVICES REQUESTED

AGREEMENTS

Project management for all Year 7 eligible projects (120 hrs)

EQUIPMENT

- **Web/email Servers** – 25 - DELL PowerEdge 2650 dual Xeon 3.06Ghz/512K cache/2GB/24xCD or 8xDVD/10/100/1000/Rack/3-36GBhd/RAID/Hotswap-pwr&fan/ Win2003 Server – equivalent or better
- **DHCP/DNS Servers** – 12 - DELL PowerEdge 2650 dual Xeon 3.06Ghz/512K cache/1GB/24xCD/10/100/1000/Rack/3-36GBhd/RAID/Hotswap-pwr&fan/ Win2003 Server – equivalent or better
- **Tape backup Units** - 12 - HP StorageWorks SDLT 220GB tape drive w/backup software, 1 yr 24x7 maintenance, and installation
- **PVBX** - 30 nodes, design, install, 1 yr. Maintenance (48 hrs on-site)
- **Firewall Server/Router** - 12

LAN CABLING AND ELECTRONICS (elementary schools, HS, and data center)

- 1900 drops Cat5e or better, include patch cables, enclosures, removal & disposal of existing wiring; 50 single mode fiber patch cable; 50 multi-mode fiber patch cable; design & engineering; tested & certified (elementary, HS, and data center)
- Wireless LAN – 20 areas (40 nodes)
- Wireless Cards
- APC SmartUPS 3000VA RM equivalent or better 12
- Server racks: enclosed, lockable, 15" LCD monitor/keyboard/drawer/trackball, APC fan kit, KVM switch & cable set - 12
- LAN Electronics plus install, configure, and warranty (Cisco certification required):

<u>Description</u>	<u>Qty.</u>
Cat 6509 Chassis, 9 slot, 15RU, No Pow Supply, No Fan Tray	12
Catalyst 6000 8-port GE, Enhanced QoS (Req. GBICs)	11
PKG, PWR SPLY INSERT, CAT 5500	12
Catalyst 6000 Blank Line Card Slot Cover	34
Catalyst 6500 Supervisor Engine-2, 2 GB, plus MSFC-2/PFC-2	15
Catalyst 6500 16-port Gig/Copper Module, x-bar	12
1000Base-LX/LH long haul GBIC (singlemode or multimode)	120
1000Base-SX Short Wavelength GBIC (multimode only)	24
Catalyst 6000 2500W AC Power Supply	24
Catalyst 6000 Fan Tray for 9-Slot Systems	12
AC POWER CORD NORTH AMERIZ (110V)	24
Catalyst 6000 Sup 2 Flash Image w/SSH, Rel 8.1	12
Catalyst 6000 MSFC2 IOS SERVICE PROVIDER W/VIP	15
Catalyst 6000 Sup2 Mem, 128 MB DRAM Option	15
Catalyst 6500 48-port 10/100, RJ-45, x-bar	35

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1

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eRate Bid Information

Internal Connections – Form 470# 526880000481973

Catalyst 6000 MSFC-2 Mem, 128MB DRAM Option	15
Catalyst 3750 48 10/100 + 4 SFP Standard Multilayer Image	82
GE SFP, LC connector SX transceiver	3
Cisco StackWise 50CM Stacking cable	82
Catalyst 6500 16-port GigE Mod: Fabric-Enabled (Req. GBICs)	3

***Site-specific distribution available at walkthrough**

Attachment
2

ATLANTIC CITY PUBLIC SCHOOLS

1809 Pacific Avenue
Atlantic City, NJ 08401

eRate Bid Information
Internal Connections – Form 470# 678310000481953

BIDDER REQUIREMENTS

FEDERAL E-RATE FUNDING PROGRAM

1. USF Knowledge: BIDDER shall have, at a minimum, a working knowledge of the Universal Service Fund ("USF") program for schools and libraries, commonly referred to as the "E-rate Program."
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PROPOSALS MUST INCLUDE:

*Attachment
2*

ATLANTIC CITY PUBLIC SCHOOLS

1809 Pacific Avenue
Atlantic City, NJ 08401

eRate Bid Information

Internal Connections – Form 470# 678310000481953

1. Quote for services and/or goods requested
 - a. clearly identifying eRate eligible items from non-eligible items and listing these costs and totals separately
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c/o ALEMAR Consulting, Inc.

442 Lyndhurst Drive

Broomall, PA 19008-4146

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Page 3

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1809 Pacific Avenue
Atlantic City, NJ 08401

eRate Bid Information

Internal Connections - Form 470# 678310000481953

GOODS AND SERVICES REQUESTED

AGREEMENTS/WARRANTIES

- LAN Maintenance Agreement - All eRate eligible servers, switches, Wireless Aps, UPS units, back up drives - 650 hours of on-site support (all buildings)
- Wire & Cable Maintenance - All cat 5 voice & data cabling (all buildings)
- Telephone System Maintenance Agreement - up to 3 yrs - not front loaded
- Extended Warranties for existing eligible equipment

EQUIPMENT

CODEC plus cabinet install, configure, warranty
Firewall Server/Router - 2
PVBX - 165 nodes

SEE

FRN 526880000481973

WARRANTIES

for 6509 etc

not existing in district

LAN CABLING AND ELECTRONICS

Cable drops = 323
Wireless access points/areas (w/install) = 106
48-port Switches = 8 - Cisco Catalyst 2950G or better
Routers = 2
Racks = 2
Patch panels = 16
Patch cables = 323
UPS = 10 - APC SmartUPS 3000VA RM equivalent or better
Distance Learning units = 12
Plus assorted LAN cards and accessories for cabling and wireless projects.

PROJECT LOCATIONS

- 1) Indiana School: Connect Annex to Main bldg. Cable 7 rooms with 12 CAT5 (or better) drops per room plus one coax drop = 91 drops. Including network electronics (two 48-port switches, router, rack, etc.)
- 2) MLK School: Connect 4 modular instructional units to Main Bldg via wireless. Cable all 8 modular classrooms with 8 CAT5 (or better) drops per room plus one coax drop = 72 drops. Including network electronics (two 48-port switches, router, rack, etc.)
- 3) MLK, NJ, Richmond, Texas Schools: Managed cabling for computer labs; 40 drops per location = 160 drops plus four 48-port switches.
- 4) Brighton, Indiana, NJ, NY, Richmond, Texas Schools and ACHS: expand wireless cart range with additional wireless access points. Twenty-eight (28) additional wireless access points plus install and configure.
- 5) Expand wireless access points in Chelsea Heights (3), ACHS (5), MKL (7), NJ (3), NY (6), Richmond (3), Sovereign (6), Texas (3), Uptown (7) = 43 areas. Includes install and configure.

A Hachmout
✓

ATLANTIC CITY PUBLIC SCHOOLS

1809 Pacific Avenue
Atlantic City, NJ 08401

eRate Bid Information

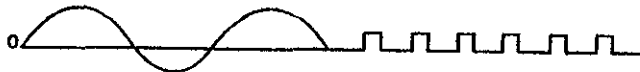
Internal Connections – Form 470# 678310000481953

- 6) Wireless access points for 35 mobile units to interface with student swipe card system.
- 7) Distance Ed: CODECs, codec housing carts, cabling, installation, and support for 12 locations. Vendor must guarantee that a) parts and service will be available for 5 years and b) support includes 48 hour problem resolution.
- 8) Video Distribution for HS:165 nodes PVBX.

High School

*165
classrooms*

Attachment 4



2658 N.W. Boulevard • Vineland, New Jersey 08360 • Office: (856) 691-5111 • Fax: (856)

January 7, 2004

Atlantic City Board of Education
1809 Pacific Ave
Atlantic City, NJ 08041

Re: SLD470- 402280000487123
Internal Cabling
Attention Alamar Consulting

Dear Martin:

Attached you will find an overview for the scope of work requested for the 470. ComTec Systems is submitting the cost for Internal Cabling as mentioned on the bid. We have reviewed the schools and have looked in depth at the request for work to be performed. Included as part of our proposals for all cabling projects are a number of issues that ComTec has taken into consideration when bidding for this work. These are very important items for the long term benefit of the Atlantic City School District.

Goals

Clean up

- *Move all cabling into secure power poles or conduits that were running on floors*
- *Run new cables to main IDF or MDF for any areas that were not home-run*
- *Replace all copper feeder cables with fiber that extend to IDF locations cables using category 5 cabling*

Security

- *Replacement of all racks and cabinets which are not in at least 18 inch deep and 24 inches in height.*
- *Replace all wall cabinets with enclosed cabinets if they are not in a secure room*
- *Standardize on a key setting for all cabinets allowing a single administrator access to each IDF*
- *Enclose all exposed wiring in conduits or chases*

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Attachment 4

Coordination

- *ComTec is an Authorized Verizon Agent and can work for right of way approvals for all sights needing aerial cables extending into public right away.*
- *ComTec will coordinate all requirements for LAN and WAN connectivity with data provider of choice*

By the completion of this project the Atlantic City School District will have dedicate network cabling home run back to certified distribution frames. All frames should be secure and all new cabling should be certified in writing for future reference. The schools will be provided with floor plans with corresponding numbers and all old cabling will be removed. ComTec Systems is very interested in working with the district and we will work closely with your staff and other vendors of choice.

NJ Avenue School

Replace existing cabling with new category 5e cabling and remove older cabling. This will include all raceways, power poles and patch panel, patch cords, engineering. There will be multiple IDF locations due to the distance limitations of Cat 5e cabling. ComTec will work with the school district to determine the best suited locations for security and environmentally controlled areas. All IDF locations will be fed with 6 strand multimode cable. All IDF areas that are not secured will be fed with an enclosed rack for security purposes.

Total number of data drops is approximately 200.
This quote includes all SLD approved hardware.

Base Bid \$110.00 per category 5 plenum run.
Any runs not needed will be credited back to school at this rate.

Total Investment \$65,250.00
SPIN # 143008185

Cordially,



Michael W Vertolli
ComTec Systems

F:\word\letters\mike\slid470-402280000487123

007333

Attachment 4

Quote

ComTec Systems Inc

2658 NW Blvd

Vineland, NJ 08360 USA

Phone: (856) 691-5111 Fax: (856) 696-4666

No.

3090

Date:

1/9/2004

Prepared for

Atlantic City Board of Education
Administration Building
1809 Pacific Ave
Atlantic City, NJ 08401 U.S.A.

Prepared by Michael Vertolli

Account No. 2829

Account Phone: (609) 343-7200

Qty.	Item ID	ItemDescription	UOM	Sell	Total
1	805008	INTERNAL CABLING	EA	65,250.000	\$65,250.0
	470# 402280000487123				
	INDIANA, MLK, RICHMOND CABLING				

Item Total: \$ 65,250.0

Total: \$ 65,250.0

Quoted by: Michael Vertolli

Date: 1/9/2004

THIS CONTRACT IS BASED ON THE DISTRICT RECEIVING A FUNDING COMMITMENT LETTER FROM THE
 SLD OF THE THE UNIVERSAL SERVICE ADMINISTRATIVE COMPANY FOR THE REQUESTED AMOUNT.

Accepted by: 

Date: 1-22-04

If equipment is itemized above and does not include labor than ComTec will bill customer for all labor charges associated with its installation at ComTec prevailing rates. If this quote is a Change Order to an Installation, customer is bound by terms agreed upon in the Equipment Purchase Agreement. Any additional materials approved for installation by the customer which are not listed will be billed as Material used. If quote exceeds \$500.00 a 50% deposit may be required before proceeding with installation. Additional installments may also apply. Customer will sign for time spent on site upon completion of all project. All equipment remains the property of ComTec Systems, Inc until paid in full.

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Attachment

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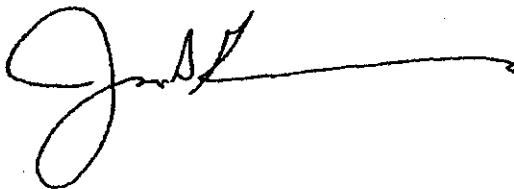
January 11, 2004

Fred Nickels- Superintendent of School's
Atlantic City School District
1809 Pacific Ave
Atlantic City NJ, 08401

Dear Mr. Nickels,

Enclosed you will find ePlus's response to your e-rate 470 form application # 42280000487123 for your review and consideration. I have included a detailed hardware solution using Cisco data equipment for your review. Eplus is the highest level of reseller for the Cisco at this time for the resale and installation of their equipment. I have also included references from previous installations ePlus has performed. I have also included certifications and skill set levels from my staff that where be performing the work if ePlus is awarded the contract. ePlus is also and has been for some time now a New Jersey State contract vendor (A81185) and I have included our award letter with all the line items that we where approved for at this time. Please review this information and if you should have any questions please feel free to contact me at 609-584-4925. Thank you for the opportunity and looking forward to speaking with you very soon.

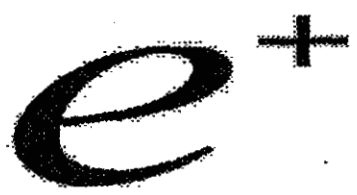
Sincerely,



Joe Guarracino
ePlus Technology
300 Horizon Center Blvd. Suite 308
Robbinsville NJ, 08691
609-584-4925
Fax: 609-631-7251
Cell: 856-217-0907
jguarracino@eplus.com

007349

Attachment 2



Client Name: Fred Nickles
 Customer: Atlantic City Public Schools
 Phone Number: 609-343-7200
 Fax Number: 609-344-8692
 Date: January 9, 2004
 Eplus's Spin# 143006563
 A84165

Form 478 # 4228000487123
 Network Infrastructure Quote

Part #	Qty	Description	Unit Price	Ext. Price
(200 drops)				
WS2959G48EI	5	2950 48 port switches	\$ 2,523.00	\$ 20,184.00
CONSNTPKG4	5	Cisco Smart Net Warranty for the 2950 switch	\$ 128.00	\$ 640.00
<u>Installation and Configuration for Switches and Routers</u>				
This will include installing and configuring for the (5) Cisco 2950 48 port switches by ePlus engineer.			\$ 2,000.00	\$ 2,000.00
<u>Data cabling and Racks</u>				
2 Full Rack Mount enclosures installed 72"H x 24"W x 36"D 39 U Rack Spaces 19" Mounting Rails Removable louvered top panel Plexiglas door with locking swing handle Perimeter vented steel rear door with locking swing handle 16 position power strip with circuit breaker and 12 ft. cord Cooling Fan Assembly			\$ 2,300.00	\$ 4,600.00
13 24 Port Ethernet Patch panels			\$ 792.00	\$ 1,056.00
N052-024	200	Data Cat 5 Cable drops: This price includes installation, termination, labeling and certification of Category 5e Data Cable from Wall Plate to Patch Panel. This price includes installation of Patch Panels within existing or new racks. This price includes WireMold installation within the classrooms. This price includes updated Visio Drawings (original drawings to be provided by Camden City School District) with cable placement. PLEASE NOTE: This quote does not include any conduit installation for routing of cables in the hallways or in classrooms without drop ceilings. Note: This price is ePlus Authorized New Jersey State contracted charge	\$ 200.00	\$ 40,000.00
200 5' foot Ethernet patch cables			\$ 5.00	\$ 1,000.00
SU3000RMNET	2	APC UPS 3000 VA RM power supply	\$ 1,346.00	\$ 2,692.00

Total for Cisco Infrastructure Project:

\$ 72,172.00

007350



5 Kellogg Court
Edison, NJ 08817
08/06/99

Atlantic City School District
Jon Jones
1809 Pacific Avenue
Atlantic City, NJ 08401

John,

Below find the pricing you requested for the Atlantic City project. Pricing is based on original quote and does not reflect additional add/delete change activity common in a project this size.

Uptown Complex	\$ 140,278
AC B.O.E	\$ 40,968
Richmond School	\$ 62,398
MLK	\$ 136,438
Brighton	\$ 81,698
Chelsea Elementary	\$ 50,178
Central Junior High	\$ 129,388
Indiana Avenue	\$ 129,808
Venice Park	\$ 21,000
A.C. High School	\$ 61,488
New Jersey School	\$ 69,378
Texas Avenue	\$ 110,428
✓ Fiber	\$ 455,286
TOTAL:	\$ 1,488,734.00

Please call me to confirm receipt and if you have any questions or concerns.

Respectfully

David A. Conroy, RCDD
Distribution Designer
732-287-2868 Voice
732-287-4540 Fax

00659



Atlantic City SLC Project Breakdown

	<u>AC</u>	<u>SLC</u>	<u>Total</u>
Voice	376K	\$1,016,000	\$1,392,000
Wire	283K	1,206,000	1,489,000
Data	136K	541,000	667,000
Video	165K		165,000
Totals	960K	\$2,763,000	\$3,713,000

Out of Pocket Cost Per Building

Net Wan Cost	\$ 9,500/Building
Net Lan Cost	\$15,355/Building
Net Data Cost	\$ 2,590/Building
Net Voice Cost	\$ 6,495/Building

SLC Exclusions

Video	\$165,000
Phones	\$ 80,000
Voice Mail	\$100,000

60713

ATLANTIC CITY PUBLIC SCHOOLS DATA CENTER

JUDITH BROWN, Data Entry Clerk
LINDA CHRISTIAN, Systems Operator
JONATHAN JONES, Hardware Technician

1809 Pacific Avenue
Atlantic City, New Jersey 08401
609/343-7227 Fax 344-3661

HOWARD LEVINSKY, Hardware Technician
DEREK CASON, Computer Resource Specialist
DOROTHY GRIFFITHS, Computer Resource Specialist

To: Dr. Delois Campbell - Executive Assistant Superintendent
From: Jonathan B. Jones - Hardware Technician
Date: Thursday, May 20, 1999
Re: Information on E-Rate

As per our conversation, this is a portion of the E-Rate information as requested for consideration as a hand out. Please review and check to see if this is informative enough.

Atlantic City SLC Project Breakdown

	AC	SLC	TOTALS
Voice	376K	\$1,016,000	\$1,392,000
Wire	283K	1,206,000	1,489,000
Data	136K	541,000	667,000
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Net Data Cost	\$ 2,590/Building
Net Voice Cost	\$ 6,495/Building

SLC Exclusions

Video	\$165,000
Phones	\$ 80,000
Voice Mail	\$100,000

The following is a summary of some of the benefits to be derived by the Atlantic City School District if only the base line portion of the proposed Lucent Technologies technology infrastructure solution were to be implemented.

60665

1701

One hundred ninety four (194) Administrative Locations:

Atlantic City Board of Education	Qty 64	
Dr. Martin Luther King Complex	Qty 30	
Uptown School Complex	Qty 20	
Central Junior High School	Qty 22	
Richmond Avenue School	Qty 10	
Chelsea Heights School	Qty 08	
Indiana Avenue School	Qty 10	
Chelsea Junior High School	Qty 07	
Brighton Avenue School	Qty 09	
New Jersey Avenue School	Qty 08	x
Venice Park School	Qty 06	↳ class

- Supply and install one plenum "category 3" 4 pair cable for voice applications and one plenum "category 5" 4 pair cable for LAN/data applications.
1. Supply and install one ivory surface box and ivory surface raceway as required.
 2. Supply and install one ivory duplex faceplate.
 3. Supply and install one *blue* modular information outlets for LAN/data applications.
 4. Supply and install one *ivory* modular information outlet for voice applications.

Atlantic City High School:

- Supply and install one plenum "category 3" 4 pair cable for voice applications to one hundred four classrooms.
1. Supply and install stainless steel wall phone outlet.
 2. Supply and install surface raceway where required.
- Supply and install one plenum "category 3" 4 pair cable for voice applications to eighty-five administrative locations.
1. Supply and install one ivory surface box and ivory surface raceway as required.
 2. Supply and install one ivory faceplate.
 3. Supply and install one *ivory* modular information outlet for voice applications.

Riser/Tie Cables:

Supply and install plenum "category 3" riser/tie cables to IC locations as required in Dr. Martin Luther King Complex, Uptown School Complex, New Jersey Avenue School, Central Junior High School and Atlantic City High School. Add 50 pair riser to IDF H2.

ATLANTIC CITY DESIGN SPECIFICATIONS:

Revised

Two hundred fifty eight (258) classrooms:

Dr. Martin Luther King Complex	Qty 37	
Uptown School Complex	Qty 46	
Central Junior High School	Qty 33	
Indiana Avenue School	Qty 28	
Brighton Avenue School	Qty 25	
Richmond Avenue School	Qty 18	
Chelsea Junior High School	Qty 24	
New Jersey Avenue School	Qty 32	- x 5 drops
Chelsea Heights School	Qty 10	
Venice Park School	Qty 05	

- Supply and install one (1) wall mounted equipment bay in rear of classroom.

1. Supply and install one plenum "category 5" 4 pair cable.
2. Supply and install one MULTIMAX patch panel.
3. Supply and install one red "category 5" modular information outlet.
4. Supply and install seven blue "category 5" modular information outlets.
5. Supply one red "category 5" cross over cord @ 3'.
6. Supply seven "category 5" patch cords @ 3'.

- Supply and install ivory surface raceway to back-box below equipment bay.
 1. Supply and install one ivory double gang back box.
 2. Supply and install one eight-plex double gang ivory faceplate.
 3. Supply and install seven "category 5" cables from patch panel to back- box.
 4. Supply and install seven blue modular information outlets and one dust cover.
 5. Supply three "category 5" mounting cords @ 9'.

Supply and install one plenum "category 3" 4 pair cable for voice applications.

1. Supply and install stainless steel wall phone outlet.
2. Supply and install surface raceway where required.

- Supply and install three plenum "category 5" 4 pair cables to location in front of classroom.

1. Supply and install one ivory surface box and ivory surface raceway as required.
2. Supply and install one ivory triplex faceplate.
3. Supply and install one orange modular information outlet for video applications.
4. Supply and install two blue modular information outlets for LAN/data applications.

Fiber Optic Cable:

Install OSP fiber optic cable using high strand count in a star configuration from Dr. Martin Luther King Complex to ten schools and Atlantic City Board of Education Building. Splicing of strands to each building will take place in manholes and buildings as required.

- Supply and install 12 strands of SM and 6 strands of MM OSP fiber optic cable to Venice Park School.
- Supply and install 12 strands of SM and 6 strands of MM OSP fiber optic cable to Indiana Avenue School.

Transition to plenum fiber optic cable and extend to MC location.

- Supply and install 12 strands of SM and 6 strands of MM OSP fiber optic cable to Central Junior High School.

Transition to plenum fiber optic cable and extend to MC location.

- Supply and install 12 strands of SM and 6 strands of MM OSP fiber optic cable to Atlantic City Board of Education Building.

Transition to plenum fiber optic cable and extend to MC location.

- Supply and install 12 strands of SM and 6 strands of MM OSP fiber optic cable to New Jersey Avenue School.

Transition to plenum fiber optic cable and extend to MC location.

- Supply and install 12 strands of SM OSP fiber optic cable to Atlantic City Library.

Transition to plenum fiber optic cable and extend to MC location.

- Supply and install 12 strands of SM and 6 strands of MM OSP fiber optic cable to Uptown School Complex.

Transition to plenum fiber optic cable and extend to MC location.

- Supply and install 12 strands of SM and 6 strands of MM OSP fiber optic cable to Chelsea Junior High School.

Transition to plenum fiber optic cable and extend to MC location.

- Supply and install 12 strands of SM and 6 strands of MM OSP fiber optic cable to Brighton Avenue School.

Transition to plenum fiber optic cable and extend to MC location.

- Supply and install 12 strands of SM and 6 strands of MM OSP fiber optic cable to Richmond Avenue School.

00859

Transition to plenum fiber optic cable and extend to MC location.

- Supply and install 12 strands of SM and 6 strands of MM OSP fiber optic cable to Chelsea Heights School.

Transition to plenum fiber optic cable and extend to new MC location.

- Supply and install 12 strands of SM OSP fiber optic cable to Atlantic City High School.
- Supply and install 6 strands of plenum SM inside fiber optic cable from MDF in the Atlantic City High School to main Hub location. Tip with ST connectors, label and test.

MC/IC Locations:

- Supply and install wall mounted 110A style terminating hardware for voice cables.
- Supply and install wall mounted 110A style terminating hardware for voice riser cables.
- Supply and install wall mounted equipment bay for LAN/data equipment.
- Supply and install rack mounted "category 5" modular patch panels.
- Supply and install rack mounted fiber optic shelves.
- Supply and install ST connectors on all fiber strands.
- Supply "category 5" patch cords for switch to classroom hubs.
- Supply fiber optic patch cords.

Miscellaneous:

- Supply and install one (1) 100 pair tie cable from MDF location in Central Junior High School to Atlantic City Board of Ed. Building.
- Supply and install 100 pair Building Entrance Protectors equipped with plug in fuses in both locations.
- Terminate, ground, label and test and install sixty four cross connections to provide connectivity to PBX..
- Supply and install one (1) six pair cable from MDF location in Central Junior High School to Maintenance Building on same property.
- Supply and install 6 pair fused protectors in both locations terminate, ground, label and test. Install two 4 pair voice cables in Maintenance Building.
- Supply two hundred (200) category 5 mounting cords @ 10'. (For administrative locations)
- Supply two hundred (200) category 5 patch cords @ 5'. (For administrative locations)

00660